

NVL Laboratories, Inc.

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NVLAP

#102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Paul W. Jackson & Associates, Inc.
Address: 3604 Beach Drive SW
Seattle, WA 98116
Attention: Mr. Paul Jackson
Project Location: Rainier Brewery

Batch #: 2407551.00

Client Project #: 05-05-04
Samples Received: 4
Samples Analyzed: 4
Method: EPA/600R-93/116

Lab ID : 24041697 Client Sample #: 528-9-W1

Location: Rainier Brewery

Comments: Qualitative analysis was conducted for the presence of asbestos fibers in this sample.

Layer 1 of 1 Description: Brown dust

Non-Fibrous Materials:
Fine particles, Binder/Filler, Rust

Other Fibrous Materials: %
Cellulose
Mineral wool

Asbestos Type: %
Chrysotile <1%

Lab ID : 24041698 Client Sample #: 528-9-W2

Location: Rainier Brewery

Comments: Qualitative analysis was conducted for the presence of asbestos fibers in this sample for layer 1

Layer 1 of 2 Description: Brown dust

Non-Fibrous Materials:
Fine particles, Binder/Filler, Rust
Synthetic foam

Other Fibrous Materials: %
Cellulose
Mineral wool

Asbestos Type: %
Chrysotile >1%

Layer 2 of 2 Description: Gray fibrous material

Non-Fibrous Materials:
Fine particles, Glass beads

Other Fibrous Materials: %
Cellulose 5%
Mineral wool 30%

Asbestos Type: %
None Detected ND

Lab ID : 24041699 Client Sample #: 528-9-W3

Location: Rainier Brewery

Comments: Qualitative analysis was conducted for the presence of asbestos fibers in this sample.

Layer 1 of 1 Description: Gray dust

Non-Fibrous Materials:
Fine particles, Binder/Filler, Synthetic foam

Other Fibrous Materials: %
Cellulose
Mineral wool

Asbestos Type: %
None Detected ND

Lab ID : 24041700 Client Sample #: 528-9-W4

Location: Rainier Brewery

Comments: Qualitative analysis was conducted for the presence of asbestos fibers in this sample.

Layer 1 of 1 Description: Light gray dust

Non-Fibrous Materials:
Fine particles, Binder/Filler

Other Fibrous Materials: %
Cellulose
Mineral wool

Asbestos Type: %
Chrysotile <1%
Amosite >1%

Sampled by: Client

Analyzed by: Lyudmila Manzar

Reviewed by: Munaf Khan

Date: 06/03/2004

Date: 06/03/2004


Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.